CONTENTS

On the anisotropy of thermal expansion and electrical conductivity in triglycine selenate single crystals
A.E. Hamed, M.E. Kassem, M. El-Osairy, T.A. Ramadan and S.H. Kandil (Alexandria, Egypt) 1

Thermoanalytical studies of carbon deposition on Pt/Al_2O_3 and $Pt–Sn/Al_2O_3$ catalysts for dehydrogenation of butane in the presence of hydrogen
J. Liu, X. Gao, T. Zhang and L. Lin (Dalian, People's Republic of China) 9

Structural, thermal and electrical studies of pyrazine-bridged 5,10,15,20-tetrakis(4-methoxyphenyl)-21H,23H-porphine cobalt(II)
J.R. Allan, A.D. Paton and K. Turvey (Edinburgh, UK) 17

Contribution à l'étude thermodynamique de l'alliage Cd–Zn. Pressions partielles et propriétés thermodynamiques des solutions solides et liquides riches en zinc
M.N. Mamontov and V.P. Vassiliev (Moscow, USSR) 25

Excess volumes of cycloalkanol + cycloalkane binary systems in terms of an associated solution theory with a Flory equation of state contribution
A.J. Treszczanowicz and G.C. Benson (Ottawa, Ont., Canada) 39

Thermal decomposition of oxalates. Part XXIV. Effect of the sample preparation and environmental atmosphere on the thermal stability of silver oxalate
D. Dollimore and T.A. Evans (Toledo, OH, USA) 49

Etude thermoanalytique et spectrale de benzodiazépines. Partie I. Lorazépam
J. Kadoura, A. Chauvet, A. Terol and J. Masse (Montpellier, France) 61

Etude thermodynamique des chlorobenzènes
R. Sabbah (Marseilles, France) and Xu Wu An (Beijing, China) 81

Synthesis and characterization of a hydrated titanium(IV) oxide
M.P. Baura-Peña, M.J. Martínez-Lope and M.E. García-Clavel (Madrid, Spain) 89

Aromatisation of 1,3-butadiene under pressure
R. Cyprès, C. Braekman-Danheux, C. Delaunois and V. Halloin (Brussels, Belgium) 99

Thermal stability of $[phenyl_2I]^+$ cyano complexes containing silver, chromium and cobalt
K. Győryová (Košice, Czechoslovakia) and V. Balek (Řež, Czechoslovakia) 109

Heat capacity measurement by heat-flux-type DSC on cooling and heating cycles at low scan rates
Y. Nishimoto (Kanagawa, Japan), Y. Ichimura, R. Kinoshita, Y. Teramoto and H. Yoshida (Tokyo, Japan) 117

Changes in textural properties of limestone and dolomite during calcination
F. Rubiera, A.B. Fuertes, J.J. Pis, V. Artos and G. Marbàn (Oviedo, Spain) 125

Study of copper(II) chloropropionates complexed with imidazole or methyl substituted imidazoles
A. Busnot, F. Busnot, J.F. Hemidy and J.F. Le Querler (Caen, France) 135

Excess enthalpies of binary mixtures containing 1,3-dioxolane and cyclic compounds
R. Francesconi and F. Comelli (Bologna, Italy) 149

The phase diagrams of Na_2O and K_2O with Nb_2O_5 and the ternary system $Nb_2O_5–Na_2O–Yb_2O_3$
E. Irle, R. Blachnik and B. Gather (Osnabrück, FRG) 157

Thermal and spectroscopic study of the complexes formed between *N*-phenyl-*O*-acetyl-mandelohydroxamic acid and vanadium(V)
F. Salinas (Badajoz, Spain), J.L. Martinez Vidal, D. Cervantes Ocaña and I. Perez Alvarez (Almeria, Spain) 171

Thermoanalytical and gas chromatographic evaluation of wool wax alcohols supported by principal component analysis
H. Lamparczyk, M. Miszkiel and M. Wesołowski (Gdańsk, Poland) 177

Thermal decomposition of basic aluminium potassium sulphate (BAPS) in hydrogen atmosphere
B. Pacewska and J. Pysiak (Płock, Poland) 187

Preparation and study of 1,8-octamethylenediammonium chloronickelates
A. Angoso, J.L. Manzano and E. Rodríguez (Salamanca, Spain) 195

Characterization of graphite intercalation compounds by thermogravimetric analysis
M. Höhne, H.-J. Hummel and E. Stumpp (Clausthal-Zellerfeld, FRG) and Y.X. Wang (Hunan, China) 201

Thermal decomposition of tetrazole-containing polymers. Part II. Thermolysis of poly-2-*tert*-butyl-5-vinyltetrazole
V.V. Nedelko, V.P. Roshchupkin, S.V. Kurmaz and T.S. Larikova (Chernogolovka, USSR), A.I. Lesnikovich, O.A. Ivashkevich, S.V. Levchik, E.E. Bolvanovich and P.N. Gaponik (Minsk, USSR) 209

A flow microcalorimetric study of the inhibition of acetylcholinesterase by catecholamine derivatives
C.M.P. Silva, M.C.P. De Lima, C.R. Oliveira and A.P. Carvalho (Coimbra, Portugal) 221

Solubility data of some sodium salts in molten urea. Part I.
G. Vitali, G. Berchiesi and F. Castellani (Camerino, Italy) 231

Structure elucidation of aminophenols–iodine redox products by emanation thermal analysis
M.A. Zayed (Giza, Egypt) and V. Balek (Prague, Czechoslovakia) 237

On the ternary system Sn–Te–I: investigation of the SnI_2–Te, TeI_4–SnI_2 and SnTe–TeI_4 subsections
C. Adenis and O. Lindqvist (Gothenburg, Sweden) 247

Studies of thermodynamic properties of binary mixtures containing an alcohol. Part XV. Excess molar enthalpies of alkan-1-ol + methyl ethyl ketone and + methyl isobutyl ketone at 298.15 K
J.-P. Chao and M. Dai (Zhengzhou, People's Republic of China) 257

Enthalpies of fusion and solid–solid transition of even-numbered paraffins $C_{22}H_{46}$, $C_{24}H_{50}$, $C_{26}H_{54}$ and $C_{28}H_{58}$
U. Domańska and D. Wyrzykowska-Stankiewicz (Warsaw, Poland) 265

Thermal decomposition of gamma-irradiated barium bromate
S.M.K. Nair and P.D. Jacob (Kerala, India) 273

Thermokinetics and rheological properties of polyurethane reaction involving a new polyol
R. John, N.R. Neelakantan and N. Subramanian (Madras, India) 281

An investigation of solid-state phase transitions in 1- and 2-adamantanol by ^{13}C CP–MAS NMR
S.R. Salman (Baghdad, Iraq), R.K. Harris (Durham, UK) and J.C. Lindon (Beckenham, Kent, UK) 295

Proton–ligand ionization equilibria of 2,3-dimethyl-1-phenylpyrazol-5-one in mixtures of water and dioxane: a thermodynamic study
J.P. Shukla and S.K. Arora (Bombay, India) 301

Thermal and spectral studies of 1-(2′-hydroxybenzyl)-2-(2′-hydroxyphenyl)benzimidazole complexes of iron(III), cobalt(II), nickel(II) and copper(II)
K.K.M. Yusuff and R. Sreekala (Cochin, India) 313

Analysis of thermogravimetry curves to determine the mechanism of dissociation of 2-thiohydantoin and its derivatives and their metal chelates
F.A. Nour El-Dien (Giza, Egypt) 323

Notes

A simple computer approach for determining melting points
D. Greenspan (Arlington, TX, USA) 333

Enthalpy increments of $BaZrO_3$ and $SrZrO_3$—a reply to the comments of Cordfunke and Konings
K. Nagarajan, R. Babu and C.K. Mathews (Tamil Nadu, India) 337

The effect of temperature lag on activation energy determined by non-isothermal analysis
R.V. Muraleedharan (Bombay, India) 341

Excess volumes of cycloalkanol + *n*-alkane systems in terms of an associated solution theory with a Flory equation of state contribution
A.J. Treszczanowicz and G.C. Benson (Ottawa, Ont., Canada) 347

Author Index 351

Subject Index 353